



CDF-UK Grid Plans

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- List Resources current and Future
- Types of user activities envisioned
- Our tentative plans for the future (The Vision Thing)

Note: Cannot speak for D0-UK at this point.

Computing Resources

Each CDF-UK Institute

- 1TB Fibre Channel RAID
- 5 TB SCSI RAID
- One IBM 8-way SMP server
- Tender Pending:
 - Cluster 16-20 nodes or
 - Another 8-way server
- These resources are duplicated at Liverpool, Glasgow, and UCL.

Other resources

- 6TB Fibre channel RAID at Rutherford Appleton Laboratory
- 2x IBM 8 way servers
- 16 cpu Farm
 - This farm might not stay at RAL
- Oxford E-science Centre
ScotGrid
 - **Become potential resources in a more fully Grid-aware environment.**

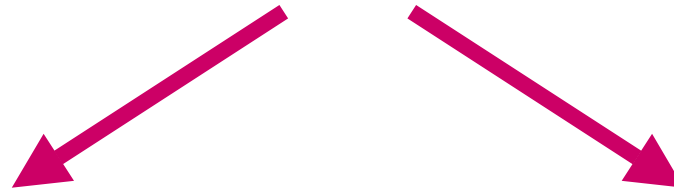
Future scenarios

- Large MC production and/or special reprocessing offsite
 - Will have some data import as well, even if unplanned
- SAM should become “the CDF data export tool” developed in a joint project with CD/D0
 - Making data export easier, will rise demand
 - We plan on SAM/Grid
- Move data to the jobs or jobs to the data funded in collaboration of GridPP, EDG, DataTAG, PPDG.

Plan For Success

The Vision Thing (Local)

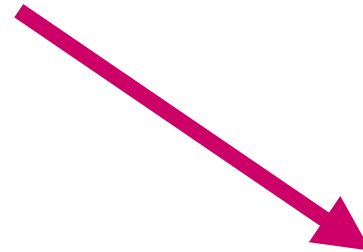
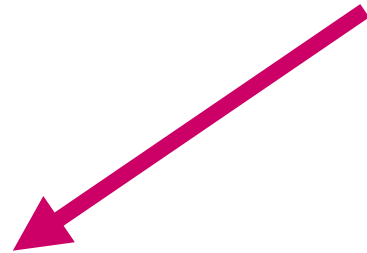
- Oxford SMP server and disk already a SAM station.
 - Should continue to be a fully functional SAM station.



- New Server would also be a SAM station including attached disk.
- Cluster
 - To SAM or not to SAM?
 - To CAF or not to CAF?

The Vision Thing (UK)

- Multiply Oxford resource by 4 (at least)
 - Caveat: I cannot speak for all resources available for the other three groups.



- Up to UK Group leaders but:
 - **Suspect they too will make their servers and disk SAM stations.**
- Cluster – same choice
 - To SAM or not to SAM?
 - To CAF or not to CAF?

SAM-Grid UK

(more vision thing)

- UK institutes have always expressed a desire to pool resources
- Tools to do so in a sensible way have not existed
 - Case in point: UK cluster at FNAL never flew.



- SAM begins to change this picture
- Full blown Grid would make it a reality.

SAM-Grid UK

(more vision thing)

- Oxford University and Glasgow University have fully funded E-science centres
 - I don't yet know exactly what this means
 - Pessimistically: no change to plan
 - Optimistically: Significant resources in computing and storage available to the CDF analysis community on the Grid
 - **Key question: How will CDF/D0 fare against the LHC users? (our competitors for these resources)**

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